International Journal of Mineral Processing, 40 (1994) 393–394
Elsevier Science B.V., Amsterdam

Contents Volume 40 (1993/1994)

Research papers

Monitoring grinding parameters by signal measurement for an industrial ball mill
Y. Zeng and E. Forssberg 1

Energy transfer and conversion during comminution and mechanical activation
K. Tkáčová, H. Heegn and N. Števulová 17

Applicability of the Reichert spiral for cleaning bituminous and lignitic coals: a pilot scale study
G. Atesok, I. Yildirim and M.S. Celik 33

Learning control of an autogenous grinding circuit
J. Valenzuela, K. Najim, R.d. Villar and M. Bourassa 45

Gold recovery with solvent sublation from chloride solutions
Y. Wang, T. Deng and J.-J. Ke 57

Water contents in froths obtained from solutions of α-terpineol, n-pentanol and n-octanol
K. Małysa 69

Oleate flotation of dickite from quartz with diluted HCl preconditioning. I. Effect of HCl preconditioning
H. Ye and I. Matsuoka 83

Oleate flotation of dickite from quartz with diluted HCl preconditioning. II. Effect of $CaCl_2$ and KCl
H. Ye and I. Matsuoka 99

Oleate flotation of dickite from quartz with diluted HCl preconditioning. III. Improvement in fine particle flotation by selective flocculation
H. Ye and I. Matsuoka 111

Reverse flotation of fine quartz from dickite with oleate
H. Ye and I. Matsuoka 123

Evaluation of the recovery of liberated and unliberated chalcopyrite by flotation columns in a copper cleaner circuit
W. Petruk and R. Lastra 137

Guide for authors 151

Research papers

Probability of collision between particles and bubbles in flotation: the theoretical inertialess model involving a swarm of bubbles in pulp phase
A. Nguyen-Van and S. Kmet 155

Simulation of charge motion in ball mills. Part 1: experimental verifications
B.K. Mishra and R.K. Rajamani 171

Simulation of charge motion in ball mills. Part 2: numerical simulations
B.K. Mishra and R.K. Rajamai 187

Variance of average stream compositions obtained by automatic incremental sampling
D. Hodouin and C. Ketata 199

Column flotation froth characteristics — stability of the bubble–particle system
M. Falutsu 225

Colloid chemistry of weak electrolyte collectors: the effect of conditioning on flotation with fatty acids
J.S. Laskowski and G.A. Nyamekye 245
Reductive leaching of a concentrate manganese dioxide ore in acid solution: stoichiometry and preliminary kinetic analysis
F. Veglio' and L. Toro 257
Mineral properties and bacterial leaching of intensively ground sphalerite and sphalerite–pyrite mixture
P. Baláž, M. Kušnierová, V.I. Varencova and B. Mišura 273
Interactions between sulphide minerals — the collectorless flotation of pyrite
W.J. Trahar, G.D. Senior and L.K. Shannon 287

Contents Volume 40 323